Accepted Manuscript

Multiscale reconstruction of a synthetic biomimetic micro-niche for enhancing and monitoring the differentiation of stem cells

Rui Li, Jinming Li, Jianbin Xu, Dexter Siu Hong Wong, Liming Bian

PII: S0142-9612(18)30328-4

DOI: 10.1016/j.biomaterials.2018.05.001

Reference: JBMT 18643

To appear in: Biomaterials

Received Date: 6 February 2018

Accepted Date: 1 May 2018

Please cite this article as: Li R, Li J, Xu J, Hong Wong DS, Bian L, Multiscale reconstruction of a synthetic biomimetic micro-niche for enhancing and monitoring the differentiation of stem cells, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.05.001.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Multiscale reconstruction of a synthetic biomimetic micro-niche for enhancing and

monitoring the differentiation of stem cells

Rui Li^{a,1}, Jinming Li^{b,1}, Jianbin Xu^c, Dexter Siu Hong Wong^a, and Liming Bian^{a,d,e,f}*

^aDepartment of Biomedical Engineering, The Chinese University of Hong Kong, Shatin, New Territories 999077, Hong Kong, P. R. China
^bMOE Key Laboratory of Laser Life Science and Institute of Laser Life Science, Collage of Biophotonics, South China Normal University, Guangzhou, Guangdong, 510631, P. R. China
^cBiomedical Research Center, Sir Run Run Shaw Hospital, School of Medicine, Zhejiang University, Hangzhou, Zhejiang, 310016, P. R. China
^dShenzhen Research Institute, The Chinese University of Hong Kong, Shatin, New Territories 999077, Hong Kong, P. R. China
^eChina Orthopedic Regenerative Medicine Group (CORMed), Hangzhou, P.R. China
^fCentre for Novel Biomaterials, The Chinese University of Hong Kong, Shatin, New Territories 999077, Hong Kong, P. R. China

*Corresponding author. Department of Biomedical Engineering, The Chinese University of Hong Kong, Shatin, New Territories 999077, Hong Kong, P. R. China E-mail: <u>lbian@cuhk.edu.hk</u> (Liming Bian)

¹Equal contributed to this work.

Download English Version:

https://daneshyari.com/en/article/6484468

Download Persian Version:

https://daneshyari.com/article/6484468

Daneshyari.com